

Name: _____

Date: _____ Period: _____

Unit 1 Test Practice

1. True or False: $-8 > -10$

Justify your answer using words or a number line.

2. Graph the integers -6, 4, -3, and 2 on a number line. Then list them from least to greatest.

3. Simplify: $13 + 6(5 - 2)$

4. Simplify: $12 \div 3 \cdot 2 - 6 + 4$

5. $-15 + (-12) =$

6. $-23 + 3 =$

7. $9 + (-5) =$

Subtract the following integers. Remember to rewrite the equation to ADD the OPPOSITE before you solve.

8. $-4 - (-6) =$

_____ + _____ = _____

9. $-12 - 5 =$

_____ + _____ = _____

10. $15 - (-3) =$

_____ + _____ = _____

11. What is the distance between the points (2, -5) and (2, 7)?

12. What is the distance between the points (-3, 4) and (-5, 4)?

13. Plot the following points on the coordinate grid: (-2, 5) (-2, 1) (4, 5) (4, 1)

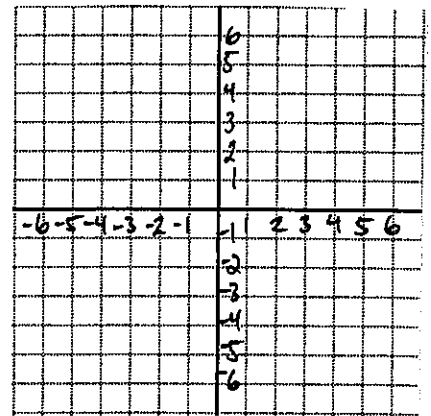
a. Find the length, width, area, and perimeter.

b. Length (vertical): _____ units

c. Width (horizontal): _____ units

d. Area (show calculation): _____ square units

e. Perimeter (show calculation): _____ units



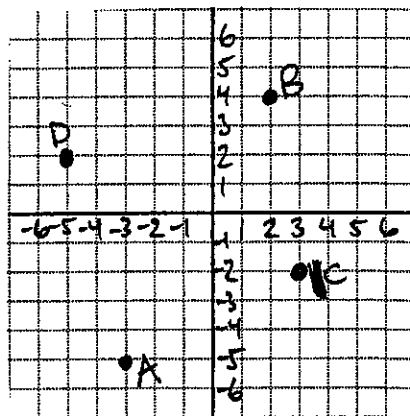
14. What is the ordered pair for each of the points below?

a. A (____, ____)

b. B (____, ____)

c. C (____, ____)

d. D (____, ____)



Name: _____

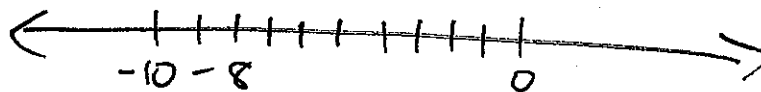
Date: _____ Period: _____

Unit 1 Test Practice

1. True or False:
- $-8 > -10$

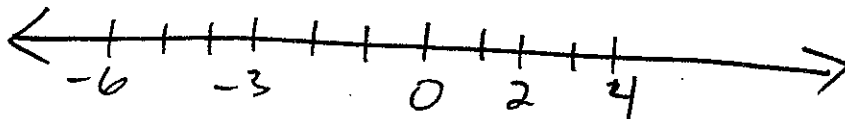
Justify your answer using words or a number line.

True



-8 is further to the right on the number line

2. Graph the integers
- -6
- ,
- 4
- ,
- -3
- , and
- 2
- on a number line. Then list them from least to greatest.



3. Simplify:
- $13 + 6(5 - 2)$

$$13 + 6(3)$$

$$13 + 18$$

$$31$$

4. Simplify:
- $12 \div 3 \cdot 2 - 6 + 4$

$$4 \cdot 2 - 6 + 4$$

$$8 - 6 + 4$$

$$2 + 4$$

$$6$$

- 5.
- $-15 + (-12) =$

$$-27$$

- 6.
- $-23 + 3 = -20$

- 7.
- $9 + (-5) = 4$

Subtract the following integers. Remember to rewrite the equation to ADD the OPPOSITE before you solve.

8. $-4 - (-6) =$

$-4 + 6 = 2$

9. $-12 - 5 =$

$-12 + -5 = -17$

10. $15 - (-3) =$

$15 + 3 = 18$

11. What is the distance between the points (2, -5) and (2, 7)?

12 units

12. What is the distance between the points (-3, 4) and (-5, 4)?

2 units

13. Plot the following points on the coordinate grid: (-2, 5) (-2, 1) (4, 5) (4, 1)

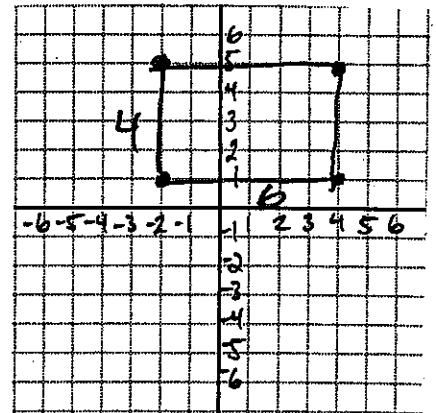
a. Find the length, width, area, and perimeter.

b. Length (vertical): 4 units

c. Width (horizontal): 6 units

d. Area (show calculation): 24 square units

e. Perimeter (show calculation): 20 units



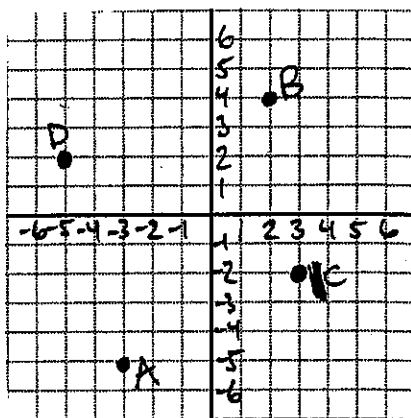
14. What is the ordered pair for each of the points below?

a. A (-3, -5)

b. B (2, 4)

c. C (3, -2)

d. D (-5, 2)



Name: _____

Date: _____ Math: _____

Integers and Number Lines Mini-Assessment

Respond to the following questions using what you've learned in the past few weeks. If you are not sure about a question, write everything you know about it (including why you are confused) and use your problem-solving skills to make a conjecture.

1. Solve each of the following problems. Choose *at least two problems* to show your work on with a model, a number line, or writing a few sentences that show your thought process.

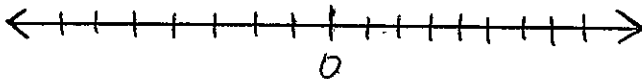
a. $-12 + 5 =$ _____

b. $-12 + -3 =$ _____

c. $20 + (-14) =$ _____

d. $12 + 15 =$ _____

2. Label -3, -6, 5, 2, 0, and 3 on the number line below.



- a. Now write -3, -6, 5, 2, 0, and 3 in order from least to greatest.
3. Circle the answer that lists the absolute values of these numbers in order from least to greatest: $\{-5, 0, -7, 6, -2\}$
- a. $\{6, 0, -2, -5, -7\}$
 - b. $\{0, 2, 5, 6, 7\}$
 - c. $\{-7, -5, -2, 0, 6\}$
 - d. $\{7, 6, 5, 2, 0\}$

4. Finish this sentence: Absolute value is _____

5. $|-9| =$

6. Erin says that $-3 + 17 = -14$

Is she correct or incorrect? Why?

7. A submarine was situated 45 feet below sea level. If it descends 30 feet, what is its new position?

a. Write an addition problem to represent this scenario.

_____ + _____ = _____

b. Now solve the problem and list the answer in the blanks above.

Name: _____

Date: _____ Math: _____

Integers and Number Lines Mini-Assessment

Respond to the following questions using what you've learned in the past few weeks. If you are not sure about a question, write everything you know about it (including why you are confused) and use your problem-solving skills to make a conjecture.

1. Solve each of the following problems. Choose *at least two problems* to show your work on with a model, a number line, or writing a few sentences that show your thought process.

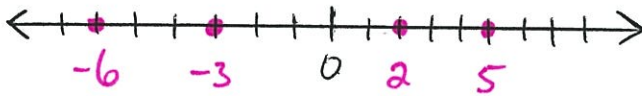
a. $-12 + 5 = \underline{-7}$

b. $-12 + -3 = \underline{-15}$

c. $20 + (-14) = \underline{6}$

d. $12 + 15 = \underline{17}$

2. Label -3, -6, 5, 2, 0, and 3 on the number line below.



- a. Now write -3, -6, 5, 2, 0, and 3 in order from least to greatest.

$-6, -3, 0, 2, 5$

3. Circle the answer that lists the absolute values of these numbers in order from least to greatest: $\{-5, 0, -7, 6, -2\}$

- a. $\{6, 0, -2, -5, -7\}$
b. $\{0, 2, 5, 6, 7\}$
c. $\{-7, -5, -2, 0, 6\}$
d. $\{7, 6, 5, 2, 0\}$

4. Finish this sentence: Absolute value is a number's distance
from zero

5. $|-9| =$ 9

6. Erin says that $-3 + 17 = -14$

Is she correct or incorrect? Why?

Incorrect. 17 has a greater absolute
value so the answer should be
positive 14.

7. A submarine was situated 45 feet below sea level. If it descends 30 feet, what is its new position?

a. Write an addition problem to represent this scenario.

$$\underline{-45} + \underline{-30} = \underline{-75}$$

b. Now solve the problem and list the answer in the blanks above.

Coordinate Planes

1. Use the coordinate plane to write the coordinates of each of the following points.

A: (____, ____)

B: (____, ____)

C: (____, ____)

D: (____, ____)

E: (____, ____)

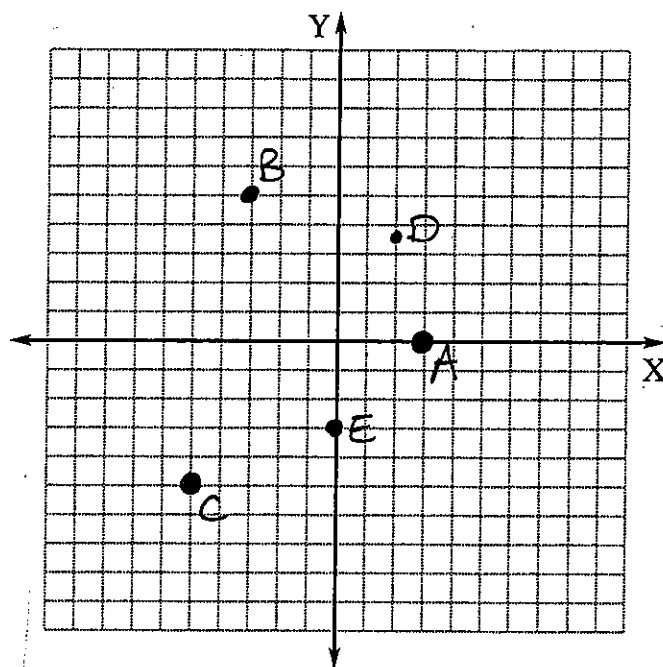
Graph these points.

F: (-3, -7)

G: (0, -4)

H: (-6, 0)

I: (4, -2)



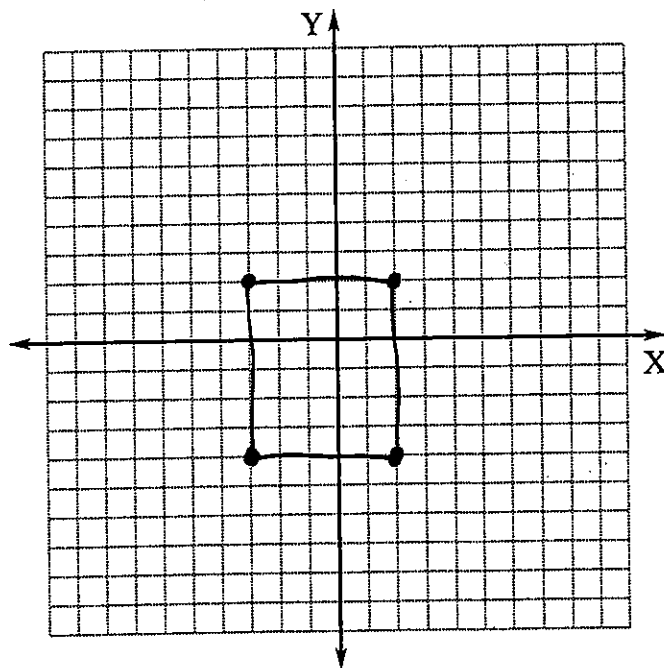
2. Use the coordinate plane to determine the following:

A: Length (vertical): _____

B: Width (horizontal): _____

C: Area (show calculation): _____ sq units

D: Perimeter (show calculation): _____ units



Order of Operations

3. $13 + 4 \div 2 \cdot 3 - 8$	4. $3[7 + 2(6 - 4)] + 9$
5. $\frac{24 \div 2}{3} - 3$	6. $[(54 \div 9) - 4] \cdot 2 + 2$

When finished, check your answers with the Key in your table folder. Use your results to decide what to do next.

- If you got any answers incorrect, choose a practice sheet from the back shelf for that concept. Complete 3-4 problems and check those answers to see if you now understand the concept.
- If you got them all correct, complete the second page of the Ant Invasion worksheet (it has GRID A and GRID B labeled prominently). Then complete the Sports Stuff Galore worksheet. These are both extensions of your understanding of Coordinate Planes.

Coordinate Planes

1. Use the coordinate plane to write the coordinates of each of the following points.

A: (3, 0)B: (-3, 5)C: (-5, -5)D: (2, 3½)E: (0, -3)

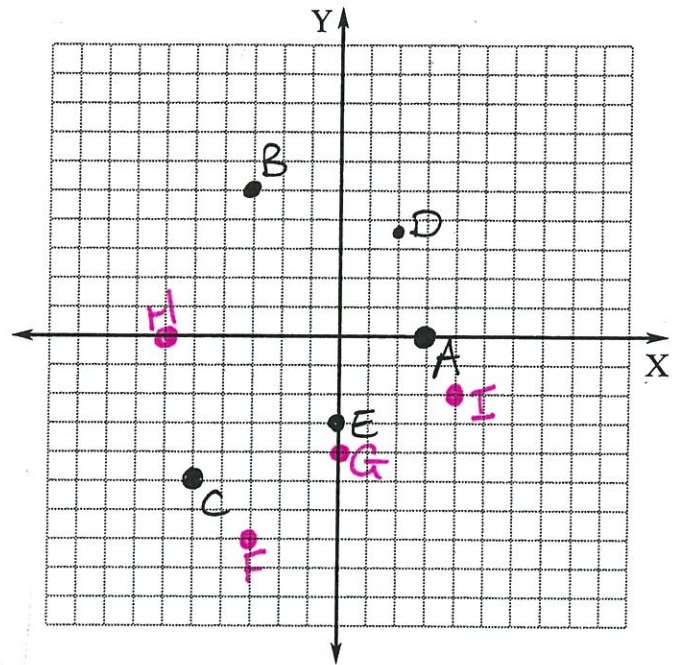
Graph these points.

F: (-3, -7)

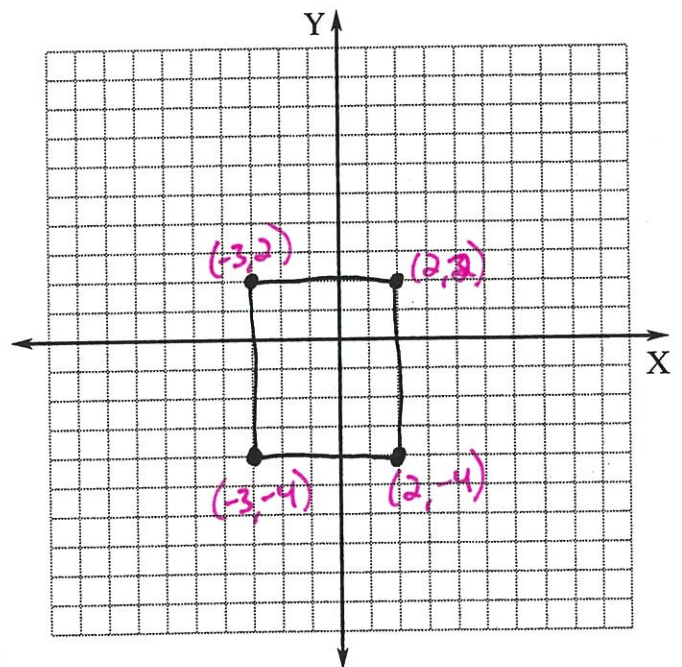
G: (0, -4)

H: (-6, 0)

I: (4, -2)



2. Use the coordinate plane to determine the following:

A: Length (vertical): 6B: Width (horizontal): 5C: Area (show calculation): 30 sq units
 $L \times W = 5 \times 6$ D: Perimeter (show calculation): 22 units
 $L + W + L + W = 6 + 5 + 6 + 5$ 

Order of Operations

3. $13 + 4 \div 2 \cdot 3 - 8$	4. $3[7 + 2(6 - 4)] + 9$
5. $\frac{24 \div 2}{3} - 3$	6. $[(54 \div 9) - 4] \cdot 2 + 2$

When finished, check your answers with the Key in your table folder. Use your results to decide what to do next.

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Advanced Order of Operations

Evaluate each expression.

1) $\{78 \div 13\} - 8 \cdot 7 + 7$

2) $\{54 \div 9\} - 4 \cdot 2 + 2$

3) $11 + \{18 \div 9\} \cdot 4 - 7$

4) $6 - \{10 \div 5\} \cdot 10 + 10$

5) $7 + \{12 \div 6\} \cdot 2 - 8$

6) $11 - \{18 \div 9\} \cdot 8 + 8$

7) $7 - \{12 \div 6\} \cdot 2 + 2$

8) $2 - 3 \cdot [5 - \{2 + 3\}]$

9) $\{48 \div 4\} - 3 \cdot 7 + 7$

10) $2 - \{4 \div 2\} \cdot 7 + 7$

11) $9 - \{11 - 9\} \cdot (4 - 11)$

12) $3 - 5 \cdot [4 - \{3 + 5\}]$



Name : _____ Score : _____

Teacher : _____ Date : _____

Advanced Order of Operations

Evaluate each expression.

1) $[\{78 \div 13\} - 8] \cdot 7 + 7$

-7

2) $[\{54 \div 9\} - 4] \cdot 2 + 2$

6

3) $[11 + \{18 \div 9\}] \cdot 4 - 7$

45

4) $[6 - \{10 \div 5\}] \cdot 10 + 10$

50

5) $[7 + \{12 \div 6\}] \cdot 2 - 8$

10

6) $[11 - \{18 \div 9\}] \cdot 8 + 8$

80

7) $[7 - \{12 \div 6\}] \cdot 2 + 2$

12

8) $2 - 3 \cdot [5 - \{2 + 3\}]$

2

9) $[\{48 \div 4\} - 3] \cdot 7 + 7$

70

10) $[2 - \{4 \div 2\}] \cdot 7 + 7$

7

11) $[9 - \{11 - 9\}] \cdot (4 - 11)$

-49

12) $3 - 5 \cdot [4 - \{3 + 5\}]$

23

